Approved For Release 2006/0 T.A-RDP63-00313A000600080017-0

IDEA-0478

Copy 6 of 6

21 September 1961

MEMORANDOW FOR: Acting Chief, DPD-DD/P

: Havigational Radio Equipment for SUBJECT

IDEALIST Aircraft

REPERENCE

: Memorandum to the Chief, Materiel Staff, from the Chief, Special Projects Branch,

dated 9 August 1961; Subject as above

- 1. This memorandum contains a recommendation on the installation of improved navigational radio equipment in all IDEALIST mircraft. Such recommendation is included in paragraph 8.
- As requested in the above referenced memorandum, we have explored the feasibility of installing the following radio equipment as replacement for the ARN-6 ADF in U-2 aircraft:
 - a. TACAN/ADF
 - **VORTAC/ADF**
 - YOR/ADF C.

3. TACAN/ADP

- This equipment can be installed in all aircraft. It can be installed permanently in aircraft which do not have SSB. In those sircraft equipped with SSB, the TACAN portion would have to be installed in space forward of the SSB which is now reserved for alternate installation of System VI equipment when System VII is installed. The TACAN equipment would be easily removable if it becomes necessary to use this space for System VI. The ADF portion would remain permanently installed.
- In aircraft without SSB, the substitution of TACAN/ADF for the ARM-6 will result in a weight increase of about 71 pounds. In aircraft with 55B, the weight increase will be about 110 pounds.
- The procurement lend time for TACAN equipment is about one year. This might be reduced to 6 months if a special Air Force priority can be obtained.

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d. The equipment is as f	estimated cost for installational collows:	Lon of TACAN/ADY
(1)	Develop, install and flight test prototype	25.
(2)	Provide seven TACAN production kits for field installation at each	
(3)	Provide four ADF production kits for field installation at each	
(4)	Provide eight RMI convertor kits for field installation at each TOTAL	
nically feasible. 5. VOR/ADF		
a. This	combination can be installed exists as with TACAN equipment	d in all sircraft.
replacing the ext	sight savings of about 11 pour lating ARN-6 ADF with ARN-59 Aircraft equipped with SSB wi and will sustain a net incres	ADF and ARC/15%
c. The about 60 days.	procurement lead time for W	OR equipment is
d. The ment is as follow	estimated cost for installings:	ag VOR/ADF equip-
(1)	Provide eight VOR production kits for field installation at each	25.

25X1

25X1

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5X1		(2) Provide for production field instantes: (3) Provide eigenvertor	kits for allation at h		25	
5X1			allation at			
	6. A sum factors for em	mary of the co ach type equipm	mparative co	est/weight/del:	Lvery	
		TOTAL COST	Acit w/88B		LEAD TIME	
25X1	TACAN/ADP			+71 1bs	l year	
	VOR/ADF			-11 lbs	60 days	
	8. In view of the lighter weight and cheaper cost of the YOR/ADF package, it is recommended that this equipment be installed in all IDEALIST aircraft.					
				15/		
25X1A	Deputy for Special Projects Materiel Staff, DPD-DD/P					
	CONCURRENCE:	/5/		_		
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	Chief,	Communications	Staff	-	1	
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